

09/937636

JC09 Rec'd PCT/PTO 25 SEP 2001

What is claimed is:

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22. An isolated hOB-BP2h nucleic acid comprising an hOB-BP2h polynucleotide encoding at least 90-100% of the contiguous amino acids as shown in SEQ ID NO:3.

³¹
23. An isolated hOB-BP2h nucleic acid comprising the complementary sequence of the nucleic acid of Claim 22.

³²
24. A recombinant vector comprising at least one nucleic acid according to Claim 22.

³³
25. A host cell comprising at least one recombinant vector according to Claim 24.

³⁴
26. An isolated hOB-BP2h polypeptide comprising at least 90-100% of the contiguous amino acids as shown in SEQ ID NO:3.

³⁵
27. The polypeptide of Claim 26 further comprising at least one mutation corresponding to at least one substitution, insertion or deletion selected from the group consisting of 3P, 4L, 8P, 9L, 11W, 15L, 16Q, 17E, 18K, 19P, 20V, 21Y, 22E, 23L, 24Q, 27K, 30T, 32Q, 37V, 38L, 47W, 48R, 49S, 51Y, 52S, 54P, 56L, 58V, 70A, 71E, 72V, 77N, 78P, 79D, 81R, 83K, 84P, 85E, 87Q, 91R, 93L, 96V, 97Q, 99K, 104S, 106G, 109R, 111E, 113T, 114G, 115S, 124R, 125D, 127K, 129S, 130Y, 131Q, 132Q, 133N, 134K, 135L, 136N, 138E, 141V, 143S, 143I, 144F, 144E, 145T, 210N, and 252A of SEQ ID NO:3.

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28. An isolated hOB-BP2h nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 90% identical to a sequence selected from the group consisting of:

(a) a nucleotide sequence encoding a polypeptide comprising a portion of SEQ ID NO:3, wherein said portion lacks from 30 to 50 amino acids from the amino terminus of said complete amino acid sequence as in SEQ ID NO:3;

(b) a nucleotide sequence encoding a polypeptide comprising a portion of amino acid sequence of SEQ ID NO:3 wherein said portion lacks from 131 to 171 amino acids from the carboxy-terminus of said complete amino acid sequence as in SEQ ID NO:3; and

(c) a nucleotide sequence encoding a polypeptide comprising a portion of the amino acid sequence of SEQ ID NO:3 wherein said portion includes a combination of any of the amino terminal and carboxy terminal deletions according to (a) and (b), above.

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29. An isolated polypeptide comprising an amino acid sequence at least 90% identical to an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence of a full-length polypeptide having the complete amino acid sequence as in SEQ ID NO:3;

(b) the amino acid sequence comprising a portion of the complete amino acid sequence as in SEQ ID NO:3 wherein said portion lacks from 30-50 amino acids from the amino terminus of said complete amino acid sequence.

(c) the amino acid sequence comprising a portion of the complete amino acid sequence as in SEQ ID NO:3

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wherein said portion lacks from 131-171 amino acids from the carboxy-terminus of said complete amino acid sequence.

(d) the amino acid sequence comprising a portion of the complete amino acid sequence as in SEQ ID NO:3 wherein said portion is the result of a combination of any of the amino-terminal and carboxy-terminal deletions according to (b) and (c), above.

³⁸ 30. The polypeptide of Claim ³⁴ 26 fused to a heterologous polypeptide.

³⁹ 31. The polypeptide of Claim ³⁸ 30 in which the heterologous polypeptide is a constant region of an immunoglobulin.

Rule 1.126 EPH